



Pro	Thr	Ser	Asn	His	Ser	Pro	Thr	Ser	Cys	Pro	Pro	Thr	Cys	Pro	Gly
			180					185					190		
Tyr	Arg	Trp	Met	Cys	Leu	Arg	Arg	Phe	Ile	Ile	Phe	Leu	Phe	Ile	Leu
		195					200					205			
Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met
	210					215					220				
Leu	Pro	Val	Cys	Pro	Leu	Ile	Pro	Gly	Ser	Ser	Thr	Thr	Ser	Thr	Gly
225					230				235						240
Pro	Cys	Arg	Thr	Cys	Thr	Thr	Pro	Ala	Gln	Gly	Thr	Ser	Met	Tyr	Pro
				245					250					255	
Ser	Cys	Cys	Cys	Thr	Lys	Pro	Ser	Asp	Gly	Asn	Cys	Thr	Cys	Ile	Pro
			260					265					270		
Ile	Pro	Ser	Ser	Trp	Ala	Phe	Gly	Lys	Phe	Leu	Trp	Glu	Trp	Ala	Ser
		275					280					285			
Ala	Arg	Phe	Ser	Trp	Leu	Ser	Leu	Leu	Val	Pro	Phe	Val	Gln	Trp	Phe
	290					295					300				
Val	Gly	Leu	Ser	Pro	Thr	Val	Trp	Leu	Ser	Val	Ile	Trp	Met	Met	Trp
305					310					315					320
Tyr	Trp	Gly	Pro	Ser	Leu	Tyr	Ser	Ile	Leu	Ser	Pro	Phe	Leu	Pro	Leu
				325					330					335	
Leu	Pro	Ile	Phe	Phe	Cys	Leu	Trp	Val	Tyr	Ile					
			340					345							

&lt;210&gt; 2

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Description of the artificial sequence:

Fusion protein comprising a HBcAg, a cell-permeability-mediating polypeptide and heterologous binding site RGD

&lt;400&gt; 2

Met	Pro	Leu	Ser	Ser	Ile	Phe	Ser	Arg	Ile	Gly	Asp	Pro	Thr	Val	Gln
1				5					10					15	
Ala	Ser	Lys	Leu	Cys	Leu	Gly	Trp	Leu	Trp	Gly	Met	Asp	Ile	Asp	Pro
			20					25					30		
Tyr	Lys	Glu	Phe	Gly	Ala	Thr	Val	Glu	Leu	Leu	Ser	Phe	Leu	Pro	Ser
		35				40						45			
Asp	Phe	Phe	Pro	Ser	Val	Arg	Asp	Leu	Leu	Asp	Thr	Ala	Ser	Ala	Leu
	50					55				60					
Tyr	Arg	Glu	Ala	Leu	Glu	Ser	Pro	Glu	His	Cys	Ser	Pro	His	His	Thr
65				70					75					80	
Ala	Leu	Arg	Gln	Ala	Ile	Leu	Cys	Trp	Gly	Glu	Leu	Met	Thr	Leu	Ala
				85					90					95	

Thr Trp Val Gly Val Asn Leu Glu Asp Pro Glu Phe Arg Gly Asp Ala  
 100 105 110  
 Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys  
 115 120 125  
 Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg  
 130 135 140  
 Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr  
 145 150 155 160  
 Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro  
 165 170 175  
 Glu Thr Thr Val Val Arg Arg Arg Gly Arg Ser Pro Arg Arg Arg Thr  
 180 185 190  
 Pro Ser Pro Arg Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg Ser  
 195 200 205  
 Gln Ser Arg Glu Pro Gln Cys  
 210 215

<210> 3  
 <211> 663  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Description of the artificial sequence:  
 DNA coding for a fusion protein comprising a HBcAg, a cell-  
 permeability-mediating polypeptide and heterologous binding  
 site RGD

<400> 3

atgcccatat cgtcaatctt ctcgaggatt ggggaccctg gatccactac tgttcaagcc 60  
 tccaagctgt gccttgggtg gctttggggc atggacatcg acccttataa agaatttgga 120  
 gctactgtgg agttactctc gtttttgctt tctgacttct ttccttcagt acgagatctt 180  
 ctagataccg cctcagctct gtatcgggaa gccttagagt ctctgagca ttgttcacct 240  
 caccatactg cactcaggca agcaattctt tgctgggggg aactaatgac tctagctacc 300  
 tgggtgggtg ttaatttgga agatccagaa ttccgaggcg acgcttctag agacctagta 360  
 gtcagttatg tcaacactaa tatgggccta aagttcaggc aactcttggt gtttcacatt 420  
 tcttgcttca cttttggaag agaaaccgtt atagagtatt tgggtgtctt cgagtggtg 480  
 attcgactc ctccagctta tagaccacca aatgcccta tctatcaac acttccggaa 540  
 actactgttg ttagacgacg aggcaggtcc cctagaagaa gaactccctc gctcgcaga 600  
 cgaaggctct aatcgccgct tcgcagaaga tctcaatctc gggaacctca atgttagtat 660

tcc

663

&lt;210&gt; 4

&lt;211&gt; 1047

&lt;212&gt; DNA

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Description of the artificial sequence:

DNA coding for a fusion protein comprising a LHBs and  
heterologous binding site RGD

&lt;400&gt; 4

atggggccgtg gcgaaggagc tggagcattc gggetgggtt tcaccccacc gcaeggaggc	60
cttttggggt ggagccctca ggctcagggc atactacaaa ctttgccagc aaatccgcct	120
cctgcctcca ccaatcgcca gacaggaagg cagcctaccc cgctgtctcc acctttgaga	180
aacactcadc cttagggcat gcagtggaat tccacaacct ttcaccaaac tctgcaagat	240
cccagagtga gaggcctgta tttccctgct ggtggctcca gttcaggagc agtaaaccct	300
gttccgacta ctgcctctcc ctlatcgta atcttctoga ggattgggga cctgcgctg	360
aacatggaga acatcacatc aggatcccta ggaccccttc tcgtgttaca ggcgggggtt	420
ttcttgttga caagaatcct cacaataccg cagagtctag actcgtggtg gacttctctc	480
aattttctag ggggaactac cgtgtgtctt ggccaaaatt cgcagtcctc aacctccaat	540
cactcaccaa cctcctgtcc tccaacttgt cctgggtatc gctggatgtg tctgcggcgt	600
tttatcatct tctcttcat cctgtgtcta tgcctcatct tcttgttggc tcttctggac	660
tatcaaggta tgttgcccg tttgtctcta attccaggat cctcaaccac cagcagcggga	720
ccatgccgaa cctgcatgac tactgtctaa ggaacctcta tgtatccctc ctgttctgt	780
accaaaccctt cggacggaaa ttgcacctgt attcccatcc catcactctg ggctttcgga	840
aaattcttat gggagtgggc cttagccctt ttctcctggc tcagtttact agtgccattt	900
gttcagtggc tcttagggct tccccccact gtttggtttt cagttatatg gatgatgtgg	960
tattgggggc caagtctgta cagcatcttg agtccctttt taccgctgtt accaattttc	1020
ttttgtcttt ggtatacat ttaaacc	1047

&lt;210&gt; 5

&lt;211&gt; 35

&lt;212&gt; DNA

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Description of the artificial sequence:

Primer



<400> 9

aaaagatctg gccgtggcga aggagctgga gcattc

36

<210> 10

<211> 30

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:  
Primer

<400> 10

aaaagatctg gtttaaattgt atacccaaag

30

<210> 11

<211> 33

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:  
Primer

<400> 11

cccgatatca tgtcatctct tgttcattgta cta

33

<210> 12

<211> 30

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:  
Primer

<400> 12

ggggatatcg gtccgatgtcc atgccccaaa

30

<210> 13

<211> 36

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:  
Primer

<400> 13

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36

<400> 14

27

<400> 15

57

<400> 16

30

<400> 17

36

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<220>
<223> Description of the artificial sequence:
        Primer
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nnngaattcc gaggcgacgc gtctagagac ctagtagtc

39

<220>  
<223> Description of the artificial sequence:  
Primer

nnnaagcttt ccccaacctta tgagtccaag

30